

09/406,36899RE067/ALBRP138USAMENDMENTS TO THE CLAIMS

- This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-7 (Cancelled)

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8. (Previously Presented) A multiple axis vibration detection system, comprising:

a light source that directs a beam of light;
a light receiving system that receives at least a portion of the beam of light;

a first light modulating system that modulates the light beam received by the light receiving system so as to correspond with vibration of a machine;

a second light modulating system that modulates the light beam received by the light receiving system so as to correspond with vibration of the machine, the second light modulating system being in series to the first light modulating system; and

a processing system that analyzes data received from the light receiving system to determine vibration of the machine in a plurality of axes.

- 9. (Previously Presented) The system of claim 8, at least one of the first light modulating system and the second light modulating system include an obstruction modulator that obstructs the beam of light so that only a portion of the beam of light is received by the light receiving system.

10. (Previously Presented) The system of claim 9, the obstruction modulator obstructs the light beam when the machine is vibrating.

11. (Previously presented) The system of claim 9, the obstruction modulator obstructs the light beam when the machine is not vibrating.